

CLAIMS

1. An organic electroluminescent device comprising a light-emitting layer containing two or more organic compounds, wherein out of the organic compounds, two organic compounds are conditioned such that an energy level $E1_{T1}$ of a first organic compound in a lowest excited triplet state is higher than an energy level $E2_{S1}$ of a second organic compound in a lowest excited singlet state, at least one energy level of said second organic compound in an excited triplet state is present between $E1_{T1}$ and $E2_{S1}$, and light is emitted from the second organic compound.

2. An organic electroluminescent device comprising a light-emitting layer containing three or more organic compounds, wherein out of the organic compounds, three organic compounds are conditioned such that the energy level $E1_{T1}$ of a first organic compound in a lowest excited triplet state is higher than an energy level $E2_{S1}$ of a second organic compound in a lowest excited singlet state, at least one energy level of said second organic compound in a excited triplet state is present between $E1_{T1}$ and $E2_{S1}$, the energy level $E1_{S1}$ in the lowest excited singlet state and the energy level $E1_{T1}$ in the lowest triplet state of said first organic compound have the following relationship with an energy level $E3_{S1}$ in a lowest excited singlet state and an energy level $E3_{T1}$ in a lowest excited triplet state of a third organic compound:

$$E3_{S1} > E1_{S1}$$

$$E_{3T_1} > E_{1T_1}$$

and light is emitted from the second organic compound.

3. An organic electroluminescent device comprising an
5 anode, a light-emitting layer described in claim 1 or 2 and
a cathode in this order.

4. An organic electroluminescent device comprising an
10 anode, a hole transport layer, a light-emitting layer
described in claim 1 or 2, an electron transport layer and
a cathode in this order.

5. The organic electroluminescent device as claimed in any
15 one of claims 1 to 4, wherein the light emission from said
second organic compound is fluorescence.

6. The organic electroluminescent device as claimed in any
20 one of claims 1 to 5, wherein said first organic compound is
a transition metal complex.

7. The organic electroluminescent device as claimed in any
one of claims 1 to 5, wherein said first organic compound is
a rare earth metal complex.

25 8. A light-emitting material comprising a light-emitting
layer containing two or more organic compounds, wherein out
of the organic compounds, two organic compounds are
conditioned such that an energy level E_{1T_1} of a first organic

compound in a lowest excited triplet state is higher than an energy level E_{2s1} of a second organic compound in the lowest excited singlet state, at least one energy level of said second organic compound in an excited triplet state is present
5 between E_{1T1} and E_{2s1} , and light is emitted from the second organic compound.

9. A light-emitting material comprising a light-emitting layer containing three or more organic compounds, wherein out
10 of the organic compounds, three organic compounds are conditioned such that an energy level E_{1T1} of a first organic compound in a lowest excited triplet state is higher than an energy level E_{2s1} of a second organic compound in a lowest excited singlet state, at least one energy level of said
15 second organic compound in an excited triplet state is present between E_{1T1} and E_{2s1} , the energy level E_{1s1} in the lowest excited singlet state and the energy level E_{1T1} in the lowest triplet state of said first organic compound have the following relationship with an energy level E_{3s1} in the lowest
20 excited singlet state and an energy level E_{3T1} in the lowest excited triplet state of a third organic compound:

$$E_{3s1} > E_{1s1}$$

$$E_{3T1} > E_{1T1}$$

and light is emitted from the second organic compound.

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10. ~~The light-emitting material as claimed in claims 8 or 9, wherein the light emission from said second organic compound is fluorescence.~~

11. The light-emitting material as claimed in any one of claims 8 to 10, wherein said first organic compound is a transition metal complex.

12. The light-emitting material as claimed in any one of claims 8 to 10, wherein said first organic compound is a rare earth metal complex.